



# Search Report

**EIC 3700**

**STIC Database Tracking Number:** 23

To: RUTH SMITH  
Location: RND-6D49  
Art Unit: 3737  
Friday, January 30, 2009

Case Serial Number: 09/231854

From: TERRENCE SOLOMON  
Location: EIC3700  
RND-8B31  
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## Search Notes

US patent 5592939 was involved in one past & closed court-case.

Sources:

- Lexis/Nexis
- Courtlink
- Questel-Orbit

490342 (08) 5592939 January 14, 1997

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

5592939

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January 14, 1997

Method and system for navigating a catheter probe

**REEXAM-LITIGATE:**

NOTICE OF LITIGATION

Wayne C. Haase v. Michael A. Martinelli, Filed Oct. 16, 1998, D.C. Massachusetts (Boston),  
Doc. No. 98-CV-12076-RWZ

**REISSUE:** January 24, 2000 - Reissue Application filed Ex. Gp.: 3733; Re. S.N. 09/494,213  
(O.G. May 9, 2000)  
January 14, 1999 - Reissue Application filed Ex. Gp.: 1632; Re. S.N. 09/231,854 (O.G. March  
23, 1999)

**CERT-CORRECTION:** August 31, 2004 - a Certificate of Correction was issued for this patent  
(O.G. September 21, 2004)

**APPL-NO:** 490342 (08)


**FILED-DATE:** June 14, 1995

**GRANTED-DATE:** January 14, 1997

**ASSIGNEE-AFTER-ISSUE:** August 22, 2000 - ASSIGNMENT OF ASSIGNORS INTEREST (SEE  
DOCUMENT FOR DETAILS)., WINCHESTER DEVELOPMENT ASSOCIATES 58 WEDGEMORE  
AVENUEWINCHESTER, MASSACHUSETTS, 01890, MARTINELLI, MICHAEL A. 58 WEDGEMORE  
AVENUEWINCHESTER, MASSACHUSETTS, 01890, Reel and Frame Number: 011064/0975  
January 7, 2002 - ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).,  
MARTINELLI, MICHAEL A. 58 WEDGEMORE AVENUEWINCHESTER, MASSACHUSETTS, 01890,  
Reel and Frame Number: 012447/0077  
February 4, 2005 - ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR  
DETAILS)., SURGICAL NAVIGATION TECHNOLOGIES, INC. 826 COAL CREEK CIRCLE COAL  
CREEK CORPORATE CENTER ONELOUISVILLE, COLORADO, 80027, Reel and Frame Number:  
015766/0865

**LEGAL-REP:** Lappin & Kusmer LLP

**CORE TERMS:** coil, sensing, induced, voltage, magnetic field, sub, orientation, catheter,  
magnetic, delta ...

Source: Legal > / . . . / > **Utility, Design and Plant Patents** 

Terms: **patno=5592939** ([Edit Search](#) | [Suggest Terms for My Search](#))

View: **Custom**

Segments: Assignee, Cert-correction, Legal-rep, Legal-status, Lit-reex, Opposition, Patno, Reexam-cert, Reexam-litigate, Reissue, Reissue-comment, Title

Date/Time: Friday, January 30, 2009 - 2:22 PM EST



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5,592,939	600	424	Haase v. Martinelli	US-DIS-MAD	1:98cv12076	10/16/1998	12/16/2003
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**US District Court Civil Docket****U.S. District - Massachusetts  
(Boston)****1:98cv12076****Haase v. Martinelli**

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**This case was retrieved from the court on Friday, January 30, 2009**

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<b>Date Filed:</b> 10/16/1998	<b>Class Code:</b> ADR, CLOSED
<b>Assigned To:</b> Judge RYA W Zobel	<b>Closed:</b> Yes
<b>Referred To:</b>	<b>Statute:</b> 28:1338
<b>Nature of suit:</b> Patent (830)	<b>Jury Demand:</b> Plaintiff
<b>Cause:</b> Patent Infringement	<b>Demand Amount:</b> \$0
<b>Lead Docket:</b> None	<b>NOS Description:</b> Patent
<b>Other Docket:</b> None	
<b>Jurisdiction:</b> Federal Question	

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Date	#	Proceeding Text
10/16/1998	1	Complaint filed. Case assigned to Judge: Wolf. Receipt #: 9633 Amount:\$ 150.00. Fee Status: paid (sad) (Entered: 10/30/1998)
10/16/1998	--	Summons issued for Martin A. Martinelli (sad) (Entered: 10/30/1998)
12/14/1998	2	Answer to complaint and Counterclaim by Martin A. Martinelli against Wayne C. Haase, Martin A. Martinelli , filed. (sad) (Entered: 12/21/1998)
12/22/1998	3	Motion by Martin A. Martinelli to dismiss and brief in support , filed. c/s (sad) (Entered: 12/22/1998)

- 12/30/1998)
- 01/04/1999 4 ASSENTED TO Motion by Wayne C. Haase to extend time to 1/20/99 to respond to def't's motion to dismiss Chapter 93A Claim , filed, c/s. (ktb) Modified on 01/15/1999 (Entered: 01/04/1999)
- 01/04/1999 5 Answer by Wayne C. Haase to [2-2] counter claim, filed, c/s. (ktb) (Entered: 01/06/1999)
- 01/05/1999 -- Judge Mark L. Wolf . Endorsed Order entered granting [4-1] motion to extend time to 1/20/99 to respond to def't's motion to dismiss Chapter 93A Claim . cc/cl. (ktb) (Entered: 01/06/1999)
- 01/20/1999 6 Judge Mark L. Wolf. Order entered re proposed reassignment to Judge Alexander Status report due on 2/12/99 cc/cl. (ktb) (Entered: 01/21/1999)
- 01/20/1999 7 Motion by Wayne C. Haase for leave to amend [1-1] complaint and brief in support , filed, c/s. (ktb) (Entered: 01/28/1999)
- 01/20/1999 8 Response by Wayne C. Haase in opposition to [3-1] motion to dismiss the Chapter 93A Claim and brief in support, FILED, c/s. (ktb) (Entered: 01/28/1999)
- 02/04/1999 10 Motion by Martin A. Martinelli to extend time to 2/27/99 to respond to pltf's motion to amend complaint , filed. (ktb) (Entered: 02/11/1999)
- 02/04/1999 11 Memorandum by Martin A. Martinelli in support of [10-1] Assented to motion to extend time to 2/27/99 to respond to pltf's motion to amend complaint, filed, c/s. (ktb) (Entered: 02/11/1999)
- 02/04/1999 12 Assented To by pltf, Motion by Martin A. Martinelli for leave to file a reply brief in support of def't's motion to dismiss Chapter 93A Claim , filed, c/s. (ktb) (Entered: 02/11/1999)
- 02/04/1999 -- Judge Mark L. Wolf . Endorsed Order entered granting [12-1] motion for leave to file a reply brief in support of def't's motion to dismiss Chapter 93A Claim . (fmr) (Entered: 05/20/1999)
- 02/08/1999 9 Consent to trial by Magistrate Alexander by Pltf Wayne C. Haase , FILED. (ktb) (Entered: 02/10/1999)
- 02/08/1999 13 Reply/response by Curtis C. Plunder for Deft Martin A. Martinelli to [6-1] order stating that the def't DOES NOT CONSENT, FILED. (ktb) (Entered: 02/11/1999)
- 02/11/1999 -- Judge Mark L. Wolf . Endorsed Order entered granting [10-1] assented to motion to extend time to 2/27/99 to respond to pltf's motion to amend complaint "Allowed. tion Allowed, by the Court, Kathleen Boyce, Deputy Clerk (ktb) (Entered: 02/11/1999)
- 03/01/1999 14 Response by Martin A. Martinelli in opposition to [7-1] motion for leave to amend [1-1] complaint and brief in support , filed. c/s (sad) (Entered: 03/03/1999)
- 03/01/1999 15 Memorandum by Martin A. Martinelli in support of [3-1] motion to dismiss , filed. c/s (sad) (Entered: 03/03/1999)
- 03/03/1999 16 Judge Mark L. Wolf . Notice of Hearing/conference: set scheduling conference for 3:00 5/18/99 cc/cl. (ktb) (Entered: 03/04/1999)
- 04/12/1999 17 Judge Mark L. Wolf . Notice of Hearing/conference: set scheduling conference for 3:00 6/23/99 cc/cl. (ktb) (Entered: 04/12/1999)
- 05/11/1999 18 Judge Mark L. Wolf . Notice of Hearing/conference: reset scheduling conference for 3:00 10/1/99 before Judge Mark L. Wolf .cc/cl. (fmr) (Entered: 05/14/1999)
- 07/02/1999 19 Case reassigned to Judge Rya W. Zobel from Judge Wolf due to J. Zobel's return to the bench. Notice of transfer sent to counsel. (ktb) (Entered: 07/07/1999)
- 09/29/1999 20 Letter by Curtis C. Plunder dated: 9/28/99 to: Court re: postponement of scheduling conference filed. (jdj) (Entered: 09/29/1999)
- 02/01/2000 21 Judge Rya W. Zobel . Notice of Hearing/conference: Motion hearing set for 2:30 2/24/00 for [7-1] motion for leave to amend [1-1] complaint and brief in support etc . cc/cl (jdj) (Entered: 02/01/2000)
- 02/01/2000 22 Judge Rya W. Zobel . Notice of Hearing/conference: scheduling conference for 2:30 2/24/00 . cc/cl (jdj) (Entered: 02/01/2000)
- 02/24/2000 23 Joint statement by Wayne C. Haase, Martin A. Martinelli , re: Local Rule 16.1 (D), filed. (jdj) (Entered: 02/25/2000)
- 03/02/2000 24 Letter by Martin A. Martinelli by Curtis C. Pfunder dated: 3/1/00 to: Ms. Urso re: rescheduling of the hearing, reset scheduling conference for 2:00 3/8/00 , Motion hearing set for 2:00 3/8/00 for [3-1] motion to dismiss filed. (lau) (Entered: 03/02/2000)
- 03/08/2000 -- Scheduling conference held . (jdj) (Entered: 03/09/2000)
- 03/08/2000 25 Judge Rya W. Zobel . Clerk's Notes: re: scheduling conference held, motion to dismiss proposed protective order by 3/28/00, defendant to provide data for settlement proposal by 4/11/00,

status of settlement by 4/18/00, parties to complete discovery regarding the arraignment between them by the end of July set further status conference for 2:30 8/10/00 Court Reporter: (jdj) (Entered: 03/09/2000)

03/09/2000 26 Judge Rya W. Zobel . Scheduling Order entered setting Discovery cutoff 7/31/00 Status conference set for 2:30 8/10/00 Settlement Status report due on 4/18/00 for Wayne C. Haase, for Martin A. Martinelli, for Martin A. Martinelli, for Martin A. Martinelli, for Wayne C. Haase . [EOD Date 3/9/00] cc/cl (jdj) (Entered: 03/09/2000)

03/28/2000 -- Proposed stipulated protective Order by Wayne C. Haase, Martin A. Martinelli received for filing. (jdj) (Entered: 03/29/2000)

04/18/2000 27 Letter by Martin A. Martinelli by Curtis C. Pfunder dated: 4/14/00 to: Ms Urso re: status of settlement negotiations filed. (jdj) (Entered: 04/18/2000)

04/21/2000 28 Judge Rya W. Zobel .Stipulated Protective Order entered . [EOD Date 4/21/00] cc/cl (jdj) (Entered: 04/21/2000)

05/05/2000 29 Status report on settlement by Wayne C. Haase, Martin A. Martinelli , filed. (jdj) (Entered: 05/05/2000)

05/11/2000 30 Status report by Wayne C. Haase , filed. (jdj) (Entered: 05/11/2000)

05/26/2000 -- Judge Rya W. Zobel . Endorsement re: [30-1] status report . (jdj) (Entered: 05/26/2000)

05/26/2000 -- Judge Rya W. Zobel . Endorsement re: [27-1] request for extension of time granted . cc/cl (jdj) (Entered: 05/26/2000)

06/29/2000 -- Terminated document: mootng [7-1] motion for leave to amend [1-1] complaint and brief in support Requested by lau. (lau) (Entered: 06/29/2000)

06/30/2000 31 SEALED DOCUMENT placed in vault. (motion for extension of time) (jdj) (Entered: 07/03/2000)

07/03/2000 32 Motion by Martin A. Martinelli to extend time to 10/31/00 for discovery , filed. (jdj) (Entered: 07/03/2000)

07/20/2000 -- Judge Rya W. Zobel . Endorsed Order entered granting [32-1] motion to extend time for discovery, to the extent that discovery issue will be revisited at the next scheduling conference . cc/cl [EOD Date 7/20/00] (jdj) (Entered: 07/20/2000)

08/10/2000 33 Notice of appearance of attorney for Wayne C. Haase by Michael L. Coyne, filed. (jdj) (Entered: 08/11/2000)

08/10/2000 -- Status conference held . (jdj) (Entered: 08/11/2000)

08/10/2000 34 Judge Rya W. Zobel . Clerk's Notes: re: status conference held, brief due by 8/24,end of April for discovery,jury trial to last 10 days set pretrial conference for 2:00 5/15/00 (jdj) (Entered: 08/11/2000)

08/11/2000 35 Judge Rya W. Zobel . Scheduling Order entered setting Discovery cutoff 4/30/01 Pretrial conference on 2:00 5/15/01 .Plaintiff may file opposition to defendants pending motion to dismiss the 93 a claim. The Court will decide that motion and plaintiffs motion to amend the complaint, on the papers. cc/cl [EOD Date 8/14/00] (jdj) (Entered: 08/14/2000)

08/17/2000 36 Response by Wayne C. Haase in opposition to [3-1] motion to dismiss , filed. (jdj) (Entered: 08/17/2000)

08/25/2000 -- Judge Rya W. Zobel . Endorsed Order entered denying [3-1] motion to dismiss . cc/cl [EOD Date 8/25/00] (jdj) (Entered: 08/25/2000)

08/28/2000 -- Supplemental Reply by Martin A. Martinelli to response to [3-1] motion to dismiss , filed. (jdj) (Entered: 08/28/2000)

08/28/2000 37 Request (non motion) file reply brief filed. (jdj) (Entered: 08/28/2000)

09/05/2000 -- Mail sent to returned by Post Office . (ktb) (Entered: 10/12/2000)

09/25/2000 38 SEALED MOTION , filed cs. (jdj) (Entered: 09/26/2000)

09/25/2000 39 Memorandum by Wayne C. Haase in support of [38-1] motion SEALED MOTION , filed. (jdj) (Entered: 09/26/2000)

09/28/2000 -- Judge Rya W. Zobel . Endorsed Order entered granting [38-1] motion SEALED MOTION . Defendants have until 10/5/00 to respond to pertinent issues. cc/cl [EOD Date 9/28/00] (jdj) (Entered: 09/28/2000)

10/06/2000 40 SEALED DOCUMENT placed in vault. (defendants Brief in opposition) (jdj) (Entered: 10/11/2000)

10/17/2000 -- Motion hearing re: [38-1] motion SEALED MOTION (jdj) (Entered: 10/19/2000)



10/17/2000 41 Judge Rya W. Zobel . Clerk's Notes: re: motion hearing held: Un seal all papers, Judge hears counsel on the attachment, papers under advisement Court Reporter: McLaughlin (jdj) (Entered: 10/19/2000)

10/18/2000 -- Judge Rya W. Zobel . Endorsed Order entered denying [38-1] motion SEALED MOTION .cc/cl [EOD Date 10/18/00] (jdj) (Entered: 10/18/2000)

11/01/2000 -- Mail sent to Michael L. Coyne returned by Post Office . (jdj) (Entered: 11/01/2000)

11/15/2000 42 Motion by Martin A. Martinelli for reconsideration of [0-0] endorsed order denying motion to dismiss chapter 93a claim , filed. (jdj) (Entered: 11/15/2000)

11/28/2000 43 Memorandum by Wayne C. Haase in opposition to [42-1] motion for reconsideration of [0-0] endorsed order denying motion to dismiss chapter 93a claim , filed. (jdj) (Entered: 11/28/2000)

12/07/2000 -- Judge Rya W. Zobel . Endorsed Order entered denying [42-1] motion for reconsideration of [0-0] endorsed order denying motion to dismiss chapter 93a claim .cc/cl [EOD Date 12/7/00] (jdj) (Entered: 12/07/2000)

02/28/2001 44 JOINT STIPULATION regarding extension of protective order by Wayne C. Haase, Martin A. Martinelli , filed. (jdj) (Entered: 02/28/2001)

04/12/2001 45 Motion by Wayne C. Haase to compel , filed cs. (jdj) (Entered: 04/12/2001)

04/20/2001 46 Letter by Curtis C. Pfunder dated: 4/19/01 to: Ms Urso re: extension of discovery period filed. (jdj) (Entered: 04/20/2001)

04/25/2001 47 Motion by Martin A. Martinelli to compel plaintiff to respond to defendants first request for production of documents , filed cs. (jdj) (Entered: 04/25/2001)

04/25/2001 48 Memorandum by Martin A. Martinelli in support of [47-1] motion to compel plaintiff to respond to defendants first request for production of documents , filed. (jdj) (Entered: 04/25/2001)

04/30/2001 49 Letter by Curtis C. Pfunder dated: 4/27/01 to: Ms Urso re: extension of time to respond to compel until 5/1/01 filed. (jdj) (Entered: 05/01/2001)

05/02/2001 50 Letter by Curtis C. Pfunder dated: 5/1/01 to: Ms Urso re: extension of time to respond to plaintiffs motion to compel, Response to motion reset to 5/3/01 for [45-1] motion to compel filed. (jdj) (Entered: 05/02/2001)

05/07/2001 -- Terminated document: mootng [47-1] motion to compel plaintiff to respond to defendants first request for production of documents, mootng [45-1] motion to compel Requested by lau. (lau) (Entered: 05/07/2001)

05/08/2001 51 Letter by Curtis C. Pfunder dated: 5/7/01 to: Ms Urso re: mootng motions to compel filed. (jdj) (Entered: 05/08/2001)

05/15/2001 -- Status conference held . (lau) (Entered: 05/17/2001)

05/15/2001 52 Judge Rya W. Zobel . Clerk's Notes: re: status conference, set pretrial conference for 2:00 6/14/01 , set Jury trial for 9:00 10/15/01 ; after pretrial, schedule case for mediation for August. (lau) (Entered: 05/17/2001)

05/17/2001 53 Judge Rya W. Zobel . Order of reference entered for Alternative Dispute Resolution. Referred to: Mazzone for: mediation in August (lau) (Entered: 05/17/2001)

05/29/2001 54 Judge A. D. Mazzone . Notice of Hearing/conference: set ADR Conference for 10:30 8/22/01 . cc/cl (jdj) (Entered: 05/30/2001)

06/12/2001 55 Judge Rya W. Zobel . Order entered, set pretrial conference for 2:30 6/27/01 . Entered cc/cl . [EOD Date 6/12/01] (lau) (Entered: 06/12/2001)

06/22/2001 56 Pretrial memorandum by Wayne C. Haase , filed cs. (jdj) (Entered: 06/22/2001)

06/22/2001 57 Motion by Martin A. Martinelli to amend answer to add statute of frauds defense , filed cs. (jdj) (Entered: 06/22/2001)

06/22/2001 58 Memorandum by Martin A. Martinelli in support of [57-1] motion to amend answer to add statute of frauds defense , filed cs. (jdj) (Entered: 06/22/2001)

06/22/2001 59 Pretrial memorandum by Martin A. Martinelli , filed cs. (jdj) (Entered: 06/22/2001)

06/27/2001 -- Pre-trial conference held . (jdj) (Entered: 06/28/2001)

06/27/2001 60 Judge Rya W. Zobel . Clerk's Notes: re: pre-trial conference held: 5-7 days for trial, 9 jurors, voir dire on 10/10/01, burden of proof is on plaintiff. Witness list by 10/1/01 and w/respect of the parties the plaintiff then deft will outline the nature of the testimony. 9/1/01 deposition; counter designate 9/15/01, final 10/1/01 opposition to the motion to amend by 7/25/01/ (jdj) (Entered: 06/28/2001)

06/28/2001	61	Judge Rya W. Zobel . Pre-Trial Order entered, set Jury trial for 9:00 10/15/01 . cc/cl [EOD Date 6/28/01] (jdj) (Entered: 06/28/2001)
07/25/2001	62	Memorandum by Wayne C. Haase in opposition to [57-1] motion to amend answer to add statute of frauds defense , filed cs . (jdj) (Entered: 07/25/2001)
07/30/2001	63	unopposed Motion by Martin A. Martinelli for leave to file reply brief to plaintiffs opposition to defts motion for leave to amend his answer , filed. (jdj) (Entered: 07/30/2001)
07/30/2001	--	Judge Rya W. Zobel . Endorsed Order entered granting [63-1] motion for leave to file reply brief to plaintiffs opposition to defts motion for leave to amend his answer . cc/cl [EOD Date 7/31/01] (jdj) (Entered: 07/31/2001)
08/02/2001	64	Reply by Martin A. Martinelli to response to [57-1] motion to amend answer to add statute of frauds defense , filed cs . (jdj) (Entered: 08/03/2001)
08/09/2001	--	Judge Rya W. Zobel . Endorsed Order entered denying [57-1] motion to amend answer to add statute of frauds defense (because untimely) . cc/cl [EOD Date 8/10/01] (jdj) (Entered: 08/10/2001)
08/22/2001	65	Report of Alternative Dispute Resolution proceedings. The case was: settled (eaf) (Entered: 08/28/2001)
08/28/2001	66	Judge Rya W. Zobel. Settlement Order of Dismissal entered. [EOD Date 8/28/01] cc: all counsel of record. (eaf) (Entered: 08/28/2001)
08/28/2001	--	Case closed. (eaf) (Entered: 08/28/2001)
09/25/2001	67	Stipulation of dismissal by Wayne C. Haase, Martin A. Martinelli w/ prejudice, filed. w/out costs (jdj) (Entered: 09/26/2001)

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\*\* SS 1: Results 1  
PRT SS 1 MAX 1 LEGALALL

1 / 1 PLUSPAT - ©Questel - image

**Patent Number :**

US5592939 A 19970114 [US5592939]

**Title :**

(A) Method and system for navigating a catheter probe

**Inventor(s) :**

(A) MARTINELLI MICHAEL A (US)

**Application Nbr :**

US49034295 19950614 [1995US-0490342]

**Priority Details :**

US49034295 19950614 [1995US-0490342]

**Intl Patent Class :**

(A) A61B-005/05

**IPC Advanced All :**

A61B-001/00 [2006-01 A L I R M JP]; A61B-005/06 [2006-01 A - I R M EP];

A61M-025/01 [2006-01 A L I R M JP]; A61M-025/095 [2006-01 A - I R M US]

**IPC Core All :**

A61B-001/00 [2006 C L I R M JP]; A61B-005/06 [2006 C - I R M EP];

A61M-025/01 [2006 C L I R M JP]; A61M-025/095 [2006 C - I R M US]

**EPO ECLA Class :**

A61B-005/06

:

ORIGINAL (O) : 600424000; CROSS-REFERENCE (X) : 128899000

**Document Type :**

Corresponding document

**Citations :**

US3439256 [US3439256] 323051000  
-US36744014 [US36744014] 128002050  
-US3868565 [US3868565] 324034000  
-US4173228 [US4173228] 128653000  
-US4317078 [US4317078] 324208000  
-US4339953 [US4339953] 073654000  
-US4422041 [US4422041] 324207000  
-US4584577 [US4584577] 340870320  
-US4642786 [US4642786] 364559000  
-US4719419 [US4719419] 324208000  
-US4821731 [US4821731] 128662060  
-US4849692 [US4849692] 324208000  
-US4905698 [US4905698] 128653000  
-US5187475 [US5187475] 340870320  
-US5211165 [US5211165] 128653100  
-US5228442 [US5228442] 128642000  
-US5253647 [US5253647] 128653100  
-US5425367 [US5425367] 128653100  
-US5425382 [US5425382] 128899000  
-USB14905698 [USB14905698] 128653000R  
-WO9404938 [WO9404938]

**Publication Stage :**

(A) United States patent

**Abstract :**

A system for navigating a catheter probe through a body cavity includes a sensing coil affixed to a distal end of the probe. Magnetic fields are projected into the body cavity to induce voltage signals in the sensing coil that are sufficient to describe the orientation and position of the probe. A set of magnetic coils each generates a substantially uniform field in a single respective dimension. The orientation angles

of the sensing coil may be determined from known values of the unidirectional fields and the measured induced voltage signals. Gradient magnetic fields with components in two dimensions are projected into the body cavity to induce another group of voltage signals. The geometrical intersection of constant voltage surfaces developed by certain gradient fields that produce the measured induced voltage signals is a set of lines on which the catheter is located. The point of intersection of such lines yields the positional coordinates.

1 / 1 LGST - ©EPO

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ASSIGNMENT

OWNER: WINCHESTER DEVELOPMENT ASSOCIATES 58 WEDGEMORE AVE; EFFECTIVE

DATE: 19980625

ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:MEDTRONIC,

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20020107 US/AS-A [NMC]

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20040831 US/CC-A [COR]

CERTIFICATE OF CORRECTION

20050204 US/AS-A [NMC]  
ASSIGNMENT  
OWNER: SURGICAL NAVIGATION TECHNOLOGIES, INC. 826 COAL CR  
ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:MARTINELLI, MICHAEL A.  
/AR;REEL/FRAME:015766/0865;SIGNING DATES FROM 20030731 TO 20041222  
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NMC  
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1 / 1 CRXX - ©CLAIMS/RRX  
**Patent Number :**  
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**Patent Assignee :**  
Martinelli, Michael A  
**Actions :**  
19990114 REISSUE REQUESTED  
ISSUE DATE OF O.G.: 19990323  
REISSUE REQUEST NUMBER: 09/231854  
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 1632

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20000822 REASSIGNED  
ASSIGNMENT OF ASSIGNORS INTEREST

Assignor: MEDTRONIC, INC. DATE SIGNED: 06/25/1998

Assignee: WINCHESTER DEVELOPMENT ASSOCIATES 58 WEDGEMORE AVENUE  
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20020107 REASSIGNED  
ASSIGNMENT OF ASSIGNORS INTEREST

Assignor: HAASE, WAYNE C. DATE SIGNED: 09/21/2001

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Reel 012447/Frame 0077

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20050204 REASSIGNED  
ASSIGNMENT OF ASSIGNORS INTEREST

Assignor: MARTINELLI, MICHAEL A., DATE SIGNED: 07/31/2003  
WINCHESTER DEVELOPMENT ASSOCIATES, DATE SIGNED: 07/31/2003  
ENTERPRISE MEDICAL TECHNOLOGY AND DEHON, INC., DATE SIGNED: 12/22/2004

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Reel 015766/Frame 0865

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PATENT (P)

Patent Number :

US5592939 19970114 (Utility)

Plaintiffs :

Haase Wayne C

Defendants :

Martinelli Michael A

Court :

MA

Docket Number :

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Action Date :

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File Segment :

PATENT (P)

Patent Number :

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Plaintiffs :

Haase Wayne C

Defendants :

Martinelli Michael A

Court :

MA  
**Docket Number :**  
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**Filing Date :**  
1998-10-16  
**Action :**  
A complaint was filed.

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QUESTEL.ORBIT thanks you. Hope to hear from you again soon.